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population. 20 million men aged 20-30 * 20% who are really hot = 4 million.I decided to be conservative and assume only 10% of the population my friend thought was attractive would also find her attractive. 10 % of the 4 million hot guys age 20-30 would find her attractive = 400,000.My friend wanted a guy that had a good income, so I decided to focus on people attending or who'd graduated from college. In fact, she was really picky, so I decided to focus on top colleges like the Ivy League schools. About 1% of the U.S. male population attends highly competitive schools like the Ivy League. $400,000 * 1\% = 4,000$.Finally, I assumed many of the guys who were in the right age range and who my friend found attractive and who found her attractive and who went to a top college might already be taken. I cut the number I'd come up with in half to reflect the highly eligible guys who were already off the market. $4,000 \text{ hot, really smart guys age } 20\text{-}30 / 2 = 2,000$.My "so what" based on this analysis was that my friend might want to be a little less picky. All her requirements brought the number of eligible bachelors down from 160 million to only 2,000. But she thought that a group of 2,000 guys was plenty for her to find Mr. Right in, so she decided to keep her standards high. It's hard to do math under the pressure of an interview. These steps are the key to keeping your math accurate.1 - Be clear on what the calculation will tell you.Don't just start doing calculations. Know what business problem you're trying to solve and how your math will give you insight so you can make a decision. Share this with your interviewer.2 - Structure your approach.Before you do any calculation, walk through the steps you'll take to answer the question with your interviewer. There are frequently several steps in consulting math problems.3 - Do the calculation step-by-step.Once you have your approach to the case math problem, do one calculation at a time to ensure accuracy.4 - Explain the "so what?"Don't wrap up your answer with just a number, explain what the number means in the context of the business problem you were trying to solve. What would you recommend to the client?Here's an example of Consulting Math:A manufacturer of high-quality wood outdoor furniture is considering extending its product line to include Adirondack chairs. It only wants to enter the market if it can make at least \$5 million a year.Data provided: The size of the North America market for Adirondack chairs is estimated to be \$1 billion. The top 4 players hold 20% market share between them. Profit margins average 20%. Now apply the 4-step approach for minimizing mistakes.Be clear on what the calculation will tell you. "I'd like to calculate likely market share and profit our client could expect if it entered the market for Adirondack chairs in order to see if the opportunity is large enough to meet their criteria of \$5 million profits."Structure your approach. "To do this calculation, I'd first look at the likely market share our client could achieve based on the share of the top 4 players in the market. Then I'd calculate the revenues that they could expect by multiplying the market share by the size of the market. I'd then use the industry's average profit margin to calculate the level of profit they could expect."Do the calculation step-by-step. "The top 4 players in the market for Adirondack chairs have a combined market share of 20%. 20% market share /4 players = an average market share of 5%. Based on the client's success in the wood outdoor furniture market, we expect they could achieve this level of market share as well."A 5% market share in a market with \$1 billion in annual revenue would give the client \$1 billion * .05 or \$50 million in revenue.\$50 million in revenue for a product with a 20% profit margin would give the client \$10 million in expected revenue." In some cases, particularly when a case interview math problem is one step in a multi-step case question, an interviewer might hand you a chart with key information on it. These charts often have more pieces of data on them than you need. You need to find the right data. Or, you may need to manipulate the data to find what you need. For example, a table might provide a company's costs and revenues when the information you need is profit margin. Or, it might provide the revenues of the top 4 companies in the market and a 5th number that totals the revenue of all other players in the market, but you might need market share for player #3. Don't let all the number on the chart throw you. You'll still be using the same basic formulas to analyze these numbers. Instead, take a minute to understand the information the chart provides and explain it to your interviewer. Then proceed with the case interview math problem as described above: be clear about what you're looking for in the calculation, walk the interviewer through your approach, do the actual calculation, and then provide the "so what." Using this approach will make interpreting data tables in an interview straightforward.

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